

**SAN ANTONIO CREEK**  
(Upper)

**TABLE 12-4**  
**THREE-MONTH SUMMER MODEL RUN**

Rosgen Channel Class (Stream Type)	WQS (HQCWF)	Model Run Dates	Segment Length (miles)	(+/-) Solar Radiation Component per 24-Hours (joules/meter2/second)	% Total Shade	% Topo Shade	% Veg Shade	Temperature °F (24-Hour)		Temperature °C (24-Hour)	
C4	20°C (68°F)	July 13, 1998 through September 28, 1998	8	Current Field Condition + 290.60 joules/meter <sup>2</sup> /second	19.2	2.8	16.4	Minimum	57.79	Minimum	14.33
								Maximum	79.54	Maximum	26.41
								Mean	68.67	Mean	20.37
Stream Segment Temperature Model (SSTEMP)  TEMPERATURE ALLOCATIONS AS DETERMINED BY  PERCENT (%) SHADE ON THE <u>SAN ANTONIO CREEK (Upper)</u>  Actual Reduction in Solar Load to this Stream to meet the State surface water quality standard is:  290.50 joules/meter <sup>2</sup> /second (current condition) - 245.15 joules/meter <sup>2</sup> /second (32% shaded water) = 45.35 joules/meter <sup>2</sup> /second				+ 287.49 joules/meter <sup>2</sup> /second	20.0	2.8	17.2	Minimum	57.74	Minimum	14.30
								Maximum	79.38	Maximum	26.32
								Mean	68.56	Mean	20.31
				+ 280.30 joules/meter <sup>2</sup> /second	22.0	2.8	19.2	Minimum	57.61	Minimum	14.23
								Maximum	78.96	Maximum	26.09
								Mean	68.29	Mean	20.16
				* + 272.39 joules/meter <sup>2</sup> /second	24.2	2.8	21.4	Minimum	57.49	Minimum	14.16
								Maximum	78.51	Maximum	25.84
								Mean	68.00	Mean	20.00
				▲ + 245.15 joules/meter <sup>2</sup> /second	31.8	2.8	29.0	Minimum	57.04	Minimum	13.91
								Maximum	76.91	Maximum	24.95
								Mean	66.97	Mean	19.43

\* Denotes 24-Hour achievement of surface water quality standard  
for temperature

▲ Denotes the achievement of the 245.15 joules/meter<sup>2</sup>/second  
load allocation (LA)